

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

44-1614  
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Re the application of: Mark L. Nelson, et al

Serial No.: 09/823,884

Filed: March 30, 2001

For: *7- and 9-Carbamate, Urea, Thiourea, Thiocarbamate, and Heteroaryl-Amino Substituted Tetracycline Compounds*

Attorney Docket No.: GAZ-025CP

Group Art Unit: 1614

Examiner:

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Commissioner for Patents  
Washington, D.C. 20231

Certificate of First Class Mailing (37 CFR §1.8(a))

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7/14/02

Date of Signature and of Mail Deposit

By:

  
Elizabeth A. Hanley  
Registration No. 33,505  
Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

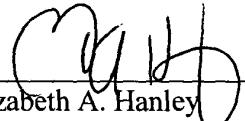
Dear Sir:

Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 C.F.R. §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed. In addition, copies of references cited in an International Search Report mailed September 05, 2001 during the prosecution of PCT/US01/10342 which corresponds to the above referenced application, have been enclosed. In accordance with 37 CFR §1.97(b)(3), Applicants hereby submit these publications for the Examiner's consideration.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted,  
LAHIVE & COCKFIELD, LLP

  
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Attorney for Applicants

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Date: 2/14/07

EAH/CMS/ ipc  
Enclosures

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO <b>GAZ-025CP</b>	SERIAL NO. <b>09/823,884</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT <b>Mark L. Nelson et al.</b>	
				FILING DATE <b>March 30, 2001</b>	GROUP <b>1614</b>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	2,980,584	4/96	Hammer	167	65	
	A2	2,990,331	6/61	Neumann et al.	167	65	
	A3	3,062,717	11/62	Hammer	167	65	
	A4	3,165,531	6/65	Blackwood et al.	260	330.5	
	A5	3,454,697	7/69	Joyner et al.	424	227	
	A6	3,483,251	12/69	Zanbrano	260	559	
	A7	3,557,280	1/71	Weber et al.	424	80	
	A8	3,674,859	7/72	Beutel et al.	424	80	
	A9	3,957,980	5/76	Noseworthy	424	227	
	A10	4,018,889	4/77	Armstrong	424	80	
	A11	4,024,272	5/77	Rogalski et al.	424	275	
	A12	4,126,680	11/78	Armstrong	424	80	
	A13	5,401,729	3/95	Sum et al.	514	152	
	A14	5,532,227	7/96	Golub et al.	514	152	
	A15	5,789,395	8/98	Amin et al.	514	152	
	A16	5,834,450	11/98	Su	514	152	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	A17	WO 94/15587 A2	7/94	PCT			
	A18	WO 96/34852 A1	11/96	PCT			
	A19	WO 98/19693 A1	5/98	PCT			
	A20	WO 99/37306 A1	7/99	PCT			

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

A21	Albar HA, et al. Synthesis of Novel Spiro and Fused Cyclopenta[c]-pyrazole and -pyrimidine Derivatives, J. Chem. Research. 1997:40-41
A22	Barden TC, et al. "Glycylcyclines". 3. 9-Aminodoxycyclinecarboxamides. J Med Chem. 1994 Sep 30;37(20):3205-11
A23	Berge SM, et al. Pharmaceutical salts. J Pharm Sci. 1977 Jan;66(1):1-19
A24	Beyer L, et al. Synthesis and Characterization of Thiourea Derivatives of $\alpha$ -Aminoacids. Crystal Structure of Methyl L-valinate and L-leucinate Derivatives. Tetrahedron 1996;52(17):6233-6240

Examiner	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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APPLICANT

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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	B1	Fikry RM, Synthesis of some New Pyrimidine and Condensed Pyrimidine Derivatives. J. Indian. Chem. Soc. 1996 Dec;73:698-699
	B2	Kassem EM, et al. Synthesis of New Benzothiazole-2-Acrylic Acid Derivatives. Pak. J. Sci. Ind. Res. 1995 Dec;38(11-12):424-427
	B3	Nassar SA, et al. Synthesis and Characterization of Some Biologically Active Pyrimidine Derivatives Containing Sulphur. 1997;40(3):239-247
	B4	Van den Bogert C, et al. Doxycycline in combination chemotherapy of a rat leukemia. Cancer Res. 1988 Dec 1;48(23):6686-90

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\*\* Admitted in TX only

Commissioner for Patents  
Washington, D.C. 20231

Re: U.S. Patent Application No.: 09/823,884  
*7- AND 9-CARBAMATE, UREA, THIOUREA, THiocarbamate, AND HETEROARYL-AMINO  
SUBSTITUTED TETRACYCLINE COMPOUNDS*  
Inventor: Mark L. Nelson, et al  
Filed: March 30, 2001  
Our Ref. No.: GAZ-025CP

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. Copies of references cited in PTO Form 1449;
4. A copy of the International Search Report; and
5. A Return Postcard.

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No additional costs are believed to be due in connection with the filing of this Supplemental Information Disclosure Statement. However, please charge any other necessary fees due in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on:

2/14/02

Date

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